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 NEWS 2 "Ask CAS" for self-help around the clock  
 NEWS 3 Jul 12 BEILSTEIN enhanced with new display and select options,  
 resulting in a closer connection to BABS  
 NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
 fields  
 NEWS 5 AUG 02 CAPLUS and CA patent records enhanced with European and Japan  
 Patent Office Classifications  
 NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!  
 (Version 7.01 for Windows) now available  
 NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage  
 NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
 status data from INPADOC  
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 NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
 STN Express with Discover!  
 NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
 NEWS 12 SEP 27 STANDARDS will no longer be available on STN  
 NEWS 13 SEP 27 SWETSCAN will no longer be available on STN

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 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
 AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

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FILE 'HOME' ENTERED AT 20:39:17 ON 26 OCT 2004

=> file uspatall

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'USPATFULL' ENTERED AT 20:39:29 ON 26 OCT 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 20:39:29 ON 26 OCT 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> e ribes g/in

E1	1	RIBES CAROLYN W/IN
E2	1	RIBES DELPHINE/IN
E3	0 -->	RIBES G/IN
E4	2	RIBES GERARD/IN
E5	6	RIBES HERVE/IN
E6	1	RIBES JOAN MARIA MAS/IN
E7	2	RIBES LAURENT/IN
E8	2	RIBES MAURICIO/IN

E9 3 RIBES MICHEL/IN  
E10 2 RIBESSE JACQUES/IN  
E11 1 RIBESSE JACQUES MAX/IN  
E12 1 RIBET JEAN PAUL/IN

=> s e4

L1 2 "RIBES GERARD"/IN

=> d 1-2

L1 ANSWER 1 OF 2 USPATFULL on STN

Full Text	Citing References
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AN 2004:38223 USPATFULL  
TI Pharmaceutical or dietary composition containing a vegetable oil, in particular olive oil and sitosterol  
IN Maurel, Jean-Claude, Castries, FRANCE  
Cros, Gerard, Montpellier, GERMANY, FEDERAL REPUBLIC OF  
**Ribes, Gerard, Montpellier, FRANCE**  
PI US 2004028759 A1 20040212  
AI US 2003-415092 A1 20030908 (10)  
WO 2001-EP12757 20011026  
PRAI GB 2000-26609 20001031  
DT Utility  
FS APPLICATION  
LN.CNT 479  
INCL INCLM: 424/769.000  
NCL NCLM: 424/769.000  
IC [7]  
ICM: A61K035-78  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 2 OF 2 USPATFULL on STN

Full Text	Citing References
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AN 95:105869 USPATFULL  
TI Treatment of non-insulin-dependent diabetes  
IN Sauvaire, Yves, Montferrier sur Lez, France  
**Ribes, Gerard, Montpellier, France**  
Laboratories Monal, France (non-U.S. corporation)  
PI US 5470879 19951128  
AI US 1994-364079 19941223 (8)  
RLI Division of Ser. No. US 1993-113951, filed on 31 Aug 1993, now abandoned  
PRAI FR 1992-10644 19920907  
DT Utility  
FS Granted  
LN.CNT 431  
INCL INCLM: 514/561.000  
NCL NCLM: 514/561.000  
IC [6]  
ICM: A61K035-78  
EXF 514/561

=> e taouis m/in

E1 1 TAOUFIK MOSTAPHA/IN  
E2 1 TAOUIL TONY F/IN  
E3 0 --> TAOUIS M/IN  
E4 1 TAOUK MICHAEL Y/IN  
E5 1 TAOULI ADBERRAHIM/IN  
E6 1 TAOYAMA MINORU/IN  
E7 1 TAP GEERT E/IN  
E8 7 TAP HENRY H/IN  
E9 3 TAPA BARNABAS/IN

E10 1 TAPADAR INDRANIL B/IN  
E11 1 TAPADAR INDRANIL BOB/IN  
E12 1 TAPAI ANTAL/IN

=> e petit r/in

E1 1 PETIT PIERRE H F/IN  
E2 1 PETIT PIERRE MARIE/IN  
E3 0 --> PETIT R/IN  
E4 1 PETIT RAYMOND/IN  
E5 2 PETIT RAYMOND C/IN  
E6 1 PETIT REGIS/IN  
E7 28 PETIT ROBERT/IN  
E8 7 PETIT ROBERT G/IN  
E9 2 PETIT ROBERT G II/IN  
E10 1 PETIT ROBERTS CORAL A/IN  
E11 3 PETIT ROGER/IN  
E12 1 PETIT ROGER M/IN

=>

=> e

E13 3 PETIT ROLAND/IN  
E14 3 PETIT SAMUEL/IN  
E15 10 PETIT SERGE/IN  
E16 9 PETIT STEPHANE/IN  
E17 1 PETIT STEVEN HAROLD/IN  
E18 1 PETIT STEVEN M/IN  
E19 1 PETIT THIERRY/IN  
E20 4 PETIT THOMAS J/IN  
E21 1 PETIT TODD MICHEAL/IN  
E22 1 PETIT VINCENT/IN  
E23 12 PETIT WILLIAM A/IN  
E24 3 PETIT XAVIER/IN

=> s e11

L2 3 "PETIT ROGER"/IN

=> d 1-3

L2 ANSWER 1 OF 3 USPATFULL on STN

Full Citing  
Text References

AN 2002:8409 USPATFULL  
TI Portable electronic appliance provided with an integrated radio communication devivce having an antenna for transmitting and/or receiving electromagnetic waves  
IN Martinez, Eric, Sartrouville, FRANCE  
**Petit, Roger**, Sartrouville, FRANCE  
PA ALCATEL (non-U.S. corporation)  
PI US 2002004409 A1 20020110  
AI US 2001-897139 A1 20010703 (9)  
PRAI FR 2000-8965 20000710  
DT Utility  
FS APPLICATION  
LN.CNT 294  
INCL INCLM: 455/550.000  
INCLS: 455/090.000  
NCL NCLM: 455/550.000  
NCLS: 455/090.000  
IC [7]  
ICM: H04M001-00

L2 ANSWER 2 OF 3 USPATFULL on STN

Full Citing  
Text References

AN 1999:70403 USPATFULL  
 TI Identity card reader device  
 IN Savalle, Patrick, Rueil Malmaison, France  
**Petit, Roger**, Sartrouville, France  
 PA Alcatel Mobile Phones, Paris, France (non-U.S. corporation)  
 PI US 5915016 19990622  
 AI US 1996-768396 19961218 (8)  
 PRAI FR 1995-15054 19951219  
 DT Utility  
 FS Granted  
 LN.CNT 135  
 INCL INCLM: 379/433.000  
 INCLS: 235/441.000; 235/492.000  
 NCL NCLM: 379/433.090  
 NCLS: 235/441.000; 235/492.000  
 IC [6]  
 ICM: H04M001-00  
 EXF 235/441; 379/433; 379/369

L2 ANSWER 3 OF 3 USPATFULL on STN

Full  
 Text

AN 91:11991 USPATFULL  
 TI Mouthpiece for wind instrument, and corresponding ligature and  
 mouthpiece cover  
 IN **Petit, Roger**, 27, boulevard de l'Est, 93340 Le Raincy, France  
 PI US 4991483 19910212  
 AI US 1989-454942 19891222 (7)  
 PRAI FR 1988-17117 19881223  
 DT Utility  
 FS Granted  
 LN.CNT 413  
 INCL INCLM: 084/383.000R  
 NCL NCLM: 084/383.000R  
 IC [5]  
 ICM: G10D009-02  
 EXF 084/383R

=> e broca c/in

E1 1 BROBYN SUSAN E/IN  
 E2 1 BROC GUILLAUME/IN  
 E3 0 --> BROCA C/IN  
 E4 1 BROCARD DIDIER/IN  
 E5 3 BROCARD EMMANUEL/IN  
 E6 1 BROCARD FABRICE/IN  
 E7 1 BROCARD FRANCOIS/IN  
 E8 1 BROCARD HUGUETTE/IN  
 E9 1 BROCARD JACQUES/IN  
 E10 1 BROCARD JACQUES BERTRAND/IN  
 E11 23 BROCARD JEAN MARIE/IN  
 E12 1 BROCARD ALAIN/IN

=> e broca/in

E1 1 BROBYN SUSAN E/IN  
 E2 1 BROC GUILLAUME/IN  
 E3 0 --> BROCA/IN  
 E4 1 BROCARD DIDIER/IN  
 E5 3 BROCARD EMMANUEL/IN  
 E6 1 BROCARD FABRICE/IN  
 E7 1 BROCARD FRANCOIS/IN  
 E8 1 BROCARD HUGUETTE/IN  
 E9 1 BROCARD JACQUES/IN  
 E10 1 BROCARD JACQUES BERTRAND/IN

E11 23 BROCARD JEAN MARIE/IN  
E12 1 BROCARD ALAIN/IN

=> e sauvaire/in

E1 4 SAUVAIGO SYLVIE/IN  
E2 1 SAUVAIN ROGER/IN  
E3 0 --> SAUVAIRE/IN  
E4 2 SAUVAIRE YVES/IN  
E5 1 SAUVAJOL RENE/IN  
E6 2 SAUVAN GERARD/IN  
E7 2 SAUVAN JACQUES/IN  
E8 4 SAUVAN JACQUES LOUIS/IN  
E9 1 SAUVAN MARCEL/IN  
E10 5 SAUVANET MAURICE/IN  
E11 1 SAUVANET MAURICE M/IN  
E12 2 SAUVANT MOYNOT VALERIE/IN

=> s e4

L3 2 "SAUVAIRE YVES"/IN

=> d 1-2

L3 ANSWER 1 OF 2 USPATFULL on STN

Full Text	References
AN	95:105869 USPATFULL
TI	Treatment of non-insulin-dependent diabetes
IN	<b>Sauvaire, Yves</b> , Montferrier sur Lez, France Ribes, Gerard, Montpellier, France
PA	Laboratories Monal, France (non-U.S. corporation)
PI	US 5470879 19951128
AI	US 1994-364079 19941223 (8)
RLI	Division of Ser. No. US 1993-113951, filed on 31 Aug 1993, now abandoned
PRAI	FR 1992-10644 19920907
DT	Utility
FS	Granted
LN.CNT	431
INCL	INCLM: 514/561.000
NCL	NCLM: 514/561.000
IC	[6]
	ICM: A61K035-78
EXF	514/561

L3 ANSWER 2 OF 2 USPATFULL on STN

Full Text	References
AN	92:9044 USPATFULL
TI	Process for the accelerated ageing and treatment of iris rhizomes
IN	Baccou, Jean-Claude, Montpellier, France Bessiere, Jean-Marie, St. Clement, France Boisseau, Patrick, Provence, France Faugeras, Pierre, Pour St. Espris, France Jouy, Nicholas, Juvignac, France Peyrot, Elysabette, Saint Cyr Au Mo, France <b>Sauvaire, Yves</b> , Montferrier Sur, France
PA	Commissariat a l'Energie Atomique, both of, France (non-U.S. government) Universite des Sciences et Techniques du Languedoc, both of, France (non-U.S. corporation)
PI	US 5085994 19920204
AI	US 1990-604572 19901026 (7)
PRAI	FR 1989-14042 19891026
DT	Utility
FS	Granted
LN.CNT	244

INCL INCLM: 435/148.000  
 INCLS: 435/173.000  
 NCL NCLM: 435/148.000  
 NCLS: 435/173.800  
 IC [5]  
 ICM: C12P007-26  
 ICS: C12N013-00  
 EXF 435/148; 435/173

=> **file merck**

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	22.64	22.85

FILE 'MRCK' ENTERED AT 20:46:32 ON 26 OCT 2004  
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=> **e hydroxyisoleucine**

E1	1	HYDROXYISOEUGENOL/BI
E2	1	HYDROXYISOINDOLINE/BI
E3	0 -->	HYDROXYISOLEUCINE/BI
E4	1	HYDROXYISONITROSOPROPIOPHENONE/BI
E5	1	HYDROXYISOPHTHALIC/BI
E6	1	HYDROXYISOPROPYL/BI
E7	2	HYDROXYISOPROPYLAMINE/BI
E8	1	HYDROXYISOVALERIC/BI
E9	1	HYDROXYISOXAZOLE/BI
E10	1	HYDROXYKAUR/BI
E11	45	HYDROXYL/BI
E12	23	HYDROXYLAMINE/BI

=> **e 4-hydroxyisoleucine**

E1	1	3ZN/BI
E2	5786	4/BI
E3	0 -->	4-HYDROXYISOLEUCINE/BI
E4	800	40/BI
E5	229	400/BI
E6	68	4000/BI
E7	5	40000/BI
E8	1	400000/BI
E9	1	40002/BI
E10	4	4001/BI
E11	1	4001323/BI
E12	1	40014/BI

=> **file medline**

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.60	23.45

FILE 'MEDLINE' ENTERED AT 20:47:42 ON 26 OCT 2004

FILE LAST UPDATED: 26 OCT 2004 (20041026/UP). FILE COVERS 1951 TO DATE.

On February 29, 2004, the 2004 MeSH terms were loaded. See HELP RLOAD for details. OLD MEDLINE now back to 1951.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See <http://www.nlm.nih.gov/mesh/> and [http://www.nlm.nih.gov/pubs/techbull/nd03/nd03\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd03/nd03_mesh.html) for a description of changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 4-hydroxyisoleucine

2051551 4

15 HYDROXYISOLEUCINE

L4 10 4-HYDROXYISOLEUCINE

(4(W)HYDROXYISOLEUCINE)

=> d 1-10

L4 ANSWER 1 OF 10 MEDLINE on STN

Full Text	Citing References
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AN 2004443395 MEDLINE

DN PubMed ID: 15350674

TI Genotoxicity testing of a fenugreek extract.

AU Flammang A M; Cifone M A; Erexxon G L; Stankowski L F Jr

CS Ross Products Division, Abbott Laboratories, 624 Cleveland Ave, Columbus, OH 43215-1724, USA.. [ann.flammang@abbott.com](mailto:ann.flammang@abbott.com)

SO Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association, (2004 Nov) 42 (11) 1769-75.

Journal code: 8207483. ISSN: 0278-6915.

CY England: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200410

ED Entered STN: 20040908

Last Updated on STN: 20041022

Entered Medline: 20041021

L4 ANSWER 2 OF 10 MEDLINE on STN

Full Text	Citing References
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AN 2004404025 MEDLINE

DN PubMed ID: 15082420

TI Insulinotropic agent ID-1101 (4-hydroxyisoleucine) activates insulin signaling in rat.

AU Broca Christophe; Breil Vincent; Cruciani-Guglielmacci Celine; Manteghetti Michele; Rouault Christine; Derouet Michel; Rizkalla Salwa; Pau Bernard; Petit Pierre; Ribes Gerard; Ktorza Alain; Gross Rene; Reach Gerard; Taouis Mohammed

CS Laboratoire de Pharmacologie, Centre de Pharmacologie et Biotechnologies pour la Sante-Unité Mixte de Recherche 5160 Centre National de la Recherche Scientifique, Faculté de Médecine, 34060 Montpellier, France.. [christophe.broca@univ-montpl.fr](mailto:christophe.broca@univ-montpl.fr)

SO American journal of physiology. Endocrinology and metabolism, (2004 Sep) 287 (3) E463-71.

Journal code: 100901226. ISSN: 0193-1849.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200409

ED Entered STN: 20040814

Last Updated on STN: 20040911

Entered Medline: 20040910

L4 ANSWER 3 OF 10 MEDLINE on STN

Full Text	Citing References
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AN 2002736689 MEDLINE  
 DN PubMed ID: 12498629  
 TI New legume sources as therapeutic agents.  
 AU Madar Zecharia; Stark Aliza H  
 CS The Hebrew University of Jerusalem, Faculty of Agricultural, Food and  
 Environmental Quality Sciences, Institute of Biochemistry, Food Science  
 and Nutrition, P.O. Box 12, Rehovot, 76100, Israel.. [madar@agri.huji.ac.il](mailto:madar@agri.huji.ac.il)  
 SO British journal of nutrition, (2002 Dec) 88 Suppl 3 S287-92. Ref: 45  
 Journal code: 0372547. ISSN: 0007-1145.  
 CY England: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 200302  
 ED Entered STN: 20021227  
 Last Updated on STN: 20030221  
 Entered Medline: 20030220

L4 ANSWER 4 OF 10 MEDLINE on STN

Full Text	Citing References
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AN 2002093541 MEDLINE  
 DN PubMed ID: 11740101  
 TI Full stereochemical understanding in a new (2R,3R,4R)-4-  
**hydroxyisoleucine** synthesis.  
 AU Rolland M; Kassem T; Rolland V; Martinez J  
 CS Laboratoire des Aminoacides, Peptides et Proteines, Universite Montpellier  
 I et II, Faculte de Pharmacie, UMR CNRS 5810, 15 Avenue Charles Flahault,  
 34060 Montpellier CEDEX 2, France.. [rolland@colombes.pharma.univ-montpl.fr](mailto:rolland@colombes.pharma.univ-montpl.fr)  
 SO Acta crystallographica. Section C, Crystal structure communications, (2001  
 Dec) 57 (Pt 12) 1415-7.  
 Journal code: 8305826. ISSN: 0108-2701.  
 CY Denmark  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS PUBMED-NOT-MEDLINE  
 EM 200202  
 ED Entered STN: 20020202  
 Last Updated on STN: 20020227  
 Entered Medline: 20020226

L4 ANSWER 5 OF 10 MEDLINE on STN

Full Text	Citing References
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AN 2000469059 MEDLINE  
 DN PubMed ID: 10944320  
 TI Two key chiral intermediates in a new 4-hydroxyisoleucine synthesis.  
 AU Kassem T; Rolland V; Martinez J; Rolland M  
 CS Laboratoire des Aminoacides, Peptides et Proteines, Universite Montpellier  
 I et II, Faculte de Pharmacie, UMR CNRS 5810, 15 Avenue Charles Flahault,  
 34060 Montpellier CEDEX 2, France.  
 SO Acta crystallographica. Section C, Crystal structure communications, (2000  
 Aug) 56 ( Pt 8) 1037-9.  
 Journal code: 8305826. ISSN: 0108-2701.  
 CY Denmark  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200010  
 ED Entered STN: 20001012



Last Updated on STN: 20001012

Entered Medline: 20001005

L4 ANSWER 6 OF 10 MEDLINE on STN

Full Text Citings  
References

AN 2000175398 MEDLINE  
DN PubMed ID: 10708743  
TI **4-Hydroxyisoleucine:** effects of synthetic and natural analogues on insulin secretion.  
AU Broca C; Manteghetti M; Gross R; Baissac Y; Jacob M; Petit P; Sauvaire Y; Ribes G  
CS UMR 9921 du Centre National de la Recherche Scientifique, Montpellier, France.. [broca@zeus.sc.univ-montpl.fr](mailto:broca@zeus.sc.univ-montpl.fr)  
SO European journal of pharmacology, (2000 Mar 3) 390 (3) 339-45.  
Journal code: 1254354. ISSN: 0014-2999.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200005  
ED Entered STN: 20000518  
Last Updated on STN: 20000518  
Entered Medline: 20000511

L4 ANSWER 7 OF 10 MEDLINE on STN

Full Text Citings  
References

AN 1999447236 MEDLINE  
DN PubMed ID: 10516120  
TI **4-Hydroxyisoleucine:** experimental evidence of its insulinotropic and antidiabetic properties.  
AU Broca C; Gross R; Petit P; Sauvaire Y; Manteghetti M; Tournier M; Masiello P; Gomis R; Ribes G  
CS Unite Mixte de Recherche 9921 du Centre National de la Recherche Scientifique, Faculte de Medecine UPRES EA 1677, 34060 Montpellier, France. [broca2zeus.sc.univ-montpl.fr](mailto:broca2zeus.sc.univ-montpl.fr).  
SO American journal of physiology, (1999 Oct) 277 (4 Pt 1) E617-23.  
Journal code: 0370511. ISSN: 0002-9513.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199911  
ED Entered STN: 20000111  
Last Updated on STN: 20000111  
Entered Medline: 19991122

L4 ANSWER 8 OF 10 MEDLINE on STN

Full Text Citings  
References

AN 1998178529 MEDLINE  
DN PubMed ID: 9519714  
TI **4-Hydroxyisoleucine:** a novel amino acid potentiator of insulin secretion.  
AU Sauvaire Y; Petit P; Broca C; Manteghetti M; Baissac Y; Fernandez-Alvarez J; Gross R; Roye M; Leconte A; Gomis R; Ribes G  
CS Laboratoire de Recherche sur les Substances Naturelles Vegetales, Universite Montpellier II, France.  
SO Diabetes, (1998 Feb) 47 (2) 206-10.  
Journal code: 0372763. ISSN: 0012-1797.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Abridged Index Medicus Journals; Priority Journals  
EM 199804

ED Entered STN: 19980416  
Last Updated on STN: 19980416  
Entered Medline: 19980403

L4 ANSWER 9 OF 10 MEDLINE on STN

Full Text Citing References

AN 97194135 MEDLINE  
DN PubMed ID: 9041713  
TI Characterization of a dioxygenase from *Trigonella foenum-graecum* involved in **4-hydroxyisoleucine** biosynthesis.  
AU Haefele C; Bonfils C; Sauvaire Y  
CS Laboratoire de Recherche sur les Substances Naturelles Vegetales, UPR ES 1677, CP 024, Universite Montpellier II, France.  
SO Phytochemistry, (1997 Feb) 44 (4) 563-6.  
Journal code: 0151434. ISSN: 0031-9422.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Biotechnology  
EM 199703  
ED Entered STN: 19970407  
Last Updated on STN: 19970407  
Entered Medline: 19970324

L4 ANSWER 10 OF 10 MEDLINE on STN

Full Text Citing References

AN 79224186 MEDLINE  
DN PubMed ID: 461558  
TI The detection of isomers of **4-hydroxyisoleucine** by the Jeol Amino Acid Analyser and by TLC. The detection of isomers of **4-hydroxyisoleucine** by the Jeol Amino Acid Analyser and by TLC.  
AU Hardman R; Abu-Al-Futuh I M  
SO Planta medica, (1979 May) 36 (1) 79-84.  
Journal code: 0066751. ISSN: 0032-0943.  
CY GERMANY, WEST: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 197909  
ED Entered STN: 19900315  
Last Updated on STN: 19900315  
Entered Medline: 19790925

=> d an ti au so kwic ab 8

L4 ANSWER 8 OF 10 MEDLINE on STN

Full Text Citing References

AN 1998178529 MEDLINE  
TI **4-Hydroxyisoleucine**: a novel amino acid potentiator of insulin secretion.  
AU Sauvaire Y; Petit P; Broca C; Manteghetti M; Baissac Y; Fernandez-Alvarez J; Gross R; Roye M; Leconte A; Gomis R; Ribes G  
SO Diabetes, (1998 Feb) 47 (2) 206-10.  
Journal code: 0372763. ISSN: 0012-1797.  
TI **4-Hydroxyisoleucine**: a novel amino acid potentiator of insulin secretion.  
AB We report the characterization of a new insulinotropic compound, **4-hydroxyisoleucine**. This amino acid has been extracted and purified from fenugreek seeds, which are known in traditional medicine for their antidiabetic properties. **4-Hydroxyisoleucine** increases glucose-induced insulin release, in the concentration range of 100 micromol/l to 1 mmol/l, through a direct effect on isolated islets of Langerhans from both rats

and humans. The stimulating effect of **4-hydroxyisoleucine** was strictly glucose dependent; indeed, ineffective at low (3 mmol/l) or basal (5 mmol/l) glucose concentrations, the amino acid potentiated. . . In addition, in the isolated perfused rat pancreas, we could show 1) that the pattern of insulin secretion induced by **4-hydroxyisoleucine** was biphasic, 2) that this effect occurred in the absence of any change in pancreatic alpha- and delta-cell activity, and 3) that the more glucose concentration was increased, the more insulin response was amplified. Moreover, **4-hydroxyisoleucine** did not interact with other agonists of insulin secretion (leucine, arginine, tolbutamide, glyceraldehyde).

Therefore, we conclude that **4-hydroxyisoleucine** insulinotropic activity might, at least in part, account for fenugreek seeds' antidiabetic properties. This secretagogue may be considered as a. . .

CN 0 (**4-hydroxyisoleucine**); 0 (Hypoglycemic Agents); 0 (Plant Extracts)  
 AB We report the characterization of a new insulinotropic compound, **4-hydroxyisoleucine**. This amino acid has been extracted and purified from fenugreek seeds, which are known in traditional medicine for their antidiabetic properties. **4-Hydroxyisoleucine** increases glucose-induced insulin release, in the concentration range of 100 micromol/l to 1 mmol/l, through a direct effect on isolated islets of Langerhans from both rats and humans. The stimulating effect of **4-hydroxyisoleucine** was strictly glucose dependent; indeed, ineffective at low (3 mmol/l) or basal (5 mmol/l) glucose concentrations, the amino acid potentiated the insulin secretion induced by supranormal (6.6-16.7 mmol/l) concentrations of glucose. In addition, in the isolated perfused rat pancreas, we could show 1) that the pattern of insulin secretion induced by **4-hydroxyisoleucine** was biphasic, 2) that this effect occurred in the absence of any change in pancreatic alpha- and delta-cell activity, and 3) that the more glucose concentration was increased, the more insulin response was amplified. Moreover, **4-hydroxyisoleucine** did not interact with other agonists of insulin secretion (leucine, arginine, tolbutamide, glyceraldehyde). Therefore, we conclude that **4-hydroxyisoleucine** insulinotropic activity might, at least in part, account for fenugreek seeds' antidiabetic properties. This secretagogue may be considered as a novel drug with potential interest for the treatment of NIDDM.

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